

IN THE CLAIMS

1. (currently amended): Bed plane with improved structure, comprising a plurality of slats, arranged transversally at [[at]] least one portion of frame (10) of the bed and connected to said bed through slat-holders, and having a series of stems or pistons (11), where each is connected with one or more of said slats and each stem or piston (11) is associated with at least one respective elastic sliding element (12), each stem or piston (11) being fixed to at least one first pulley or sliding guide (15) for the transmission of motion, which occurs due to the interposition of flexible member (16), which is selected from cords, belts, chains and/or cables, that are connected to the frame (10) of the bed plane, so that said stems or pistons (11) react to the pressures exerted by a body lying down on the bed plane, and compensate for the sinking created by the parts of the body between the shoulders and the pelvis, with an upward thrust wherein said elastic sliding element (12) is a spring which surrounds said stems or pistons (11).

2. (currently amended): Bed plane with improved structure according to claim 1, wherein said frame (10) comprises a central bearing body, from which said stems or pistons (11) project and at the top end of which the slats are connected, through balancing joints, said slats being arranged transversally to the plane, which ~~usually~~ consist the support for the mattress.

3. (previously presented): Bed plane with improved structure according to claim 1, wherein said stems or pistons (11) are connected at the top to a support beam, in turn connected, through balancing joints, to a pair of flexible slats.

4. (previously presented): Bed plane with improved structure according to claim 1, wherein each stem or piston (11) has a vertical excursion, which allows the bed plane to adapt to the anatomy of the body, independently of the weight and configuration of the person lying down on it, so that the lowering of one or more slats or portions thereof corresponds to the raising of other slats of the bed plane.

5. (previously presented): Bed plane with improved structure according to claim 1, wherein said frame (10) is of the perimetric type, in which the slats are contained inside the frame (10) itself, or said frame (10) is constructed in an underlying position and is smaller in size than the slats and in which the slats define the perimeter of the bed plane.

6. (previously presented): Bed plane with improved structure according to claim 1, wherein said bed plane includes further pulleys or sliding guides (17) for the transmission of motion, each of which is fixed to the top end (13) of the frame (10) and is arranged, at a predetermined distance, between one stem (11) and the next stem.

7. (previously presented): Bed plane with improved structure according to claim 1, wherein said stems or pistons (11) are arranged in a central portion of the frame (10) and/or of the bed plane.

8. (previously presented): Bed plane with improved structure according to claim 1, wherein said bed plane has articulated portions (10A, 10B) and a single flexible member on each side.

9. (canceled)

10. (currently amended): Bed plane with improved structure ~~according to claim 1, comprising a plurality of slats,~~ arranged transversally at least one portion of frame (10) of the bed and connected to said bed through slat-holders, and having a series of stems or pistons (11), where each is connected with one or more of said slats and each stem or piston (11) is associated with at least one respective elastic sliding element (12), each stem or piston (11) being fixed to at least one first pulley or sliding guide (15) for the transmission of motion, which occurs due to the interposition of flexible member (16), which is selected from cords, belts, chains and/or cables, that are connected to the frame (10) of the bed plane, so that said stems or pistons (11) react to the pressures exerted by a body lying down on the bed plane, and compensate for the sinking created by the parts of the body between the shoulders and the pelvis, with an upward thrust wherein said elastic sliding element (12) is arranged between the top end (13) of frame (10) and a support block (14) of pulley (15).

11. (new): Bed plane with improved structure according to claim 10, wherein said frame (10) comprises a central bearing body, from which said stems or pistons (11) project and at the top end of which the slats are connected, through

balancing joints, said slats being arranged transversally to the plane, which usually consist the support for the mattress.

12. (new): Bed plane with improved structure according to claim 10, wherein said stems or pistons (11) are connected at the top to a support beam, in turn connected, through balancing joints, to a pair of flexible slats.

13. (new): Bed plane with improved structure according to claim 10, wherein each stem or piston (11) has a vertical excursion, which allows the bed plane to adapt to the anatomy of the body, independently of the weight and configuration of the person lying down on it, so that the lowering of one or more slats or portions thereof corresponds to the raising of other slats of the bed plane.

14. (new): Bed plane with improved structure according to claim 10, wherein said frame (10) is of the perimetric type, in which the slats are contained inside the frame (10) itself, or said frame (10) is constructed in an underlying position and is smaller in size than the slats and in which the slats define the perimeter of the bed plane.

15. (new): Bed plane with improved structure according to claim 10, wherein said bed plane includes further pulleys or sliding guides (17) for the transmission of motion, each of which is fixed to the top end (13) of the frame (10) and is arranged, at a predetermined distance, between one stem (11) and the next stem.

16. (new): Bed plane with improved structure according to

claim 10, wherein said stems or pistons (11) are arranged in a central portion of the frame (10) and/or of the bed plane.

17. (new): ed plane with improved structure according to claim 10, wherein said bed plane has articulated portions (10A, 10B) and a single flexible member on each side.